



SECTION 083000

VERTICAL RETRACTING DOORS

SECTION 085000

VERTICAL RETRACTING WINDOWS

(Note to Specifier – Choose one or both Sections)

PART 1 GENERAL

1.01 SUMMARY

A. SECTION INCLUDES

1. PanoraView Vertical Retracting Doors (Note to Specifier – Choose one or both)
2. PanoraView Vertical Retracting Windows (Note to Specifier – Choose one or both)

1.02 RELATED SECTIONS

- A. Section 072700 – Air Barriers
- B. Section 076200 – Sheet Metal Flashing and Trim
- C. Section 079000 – Joint Sealants
- D. Section 081163 – Aluminum Screen and Storm Doors and Frames
- E. Section 122400 – Retractable Window Shades
- F. Section 084100 – Aluminum-Framed Entrances & Storefronts
- G. Section 088000 – Glazing
- H. Section 086300 – Metal Framed Skylights
- I. Section 260583 – Wiring Connections

1.03 REFERENCES

- A. AAMA 2604 – Voluntary specification, performance, and test procedures for high performance organic coatings on aluminum extrusions
- B. ASTM B308 – Standard Specification for Aluminum Alloy 6061-T6 Standard Structural Profiles
- C. ASTM C1036 – Standard Specification for Flat Glass
- D. ASTM C1172 – Standard Specification for Laminated Architectural Flat Glass
- E. ASTM C1048 -12e1 -Standard Specification for Heat Strengthened and Fully Tempered Flat Glass

#### 1.04 PERFORMANCE REQUIREMENTS

- A. Wind Loads: Design and size components to withstand loads imposed by wind acting on normal plane of wall as calculated in accordance with applicable code.
  - 1. Design pressure = \_\_\_\_\_ lbs./sq. ft. (Note to Specifier – Provide criteria)
  - 2. Maximum deflection of \_\_\_\_\_ (Note to Specifier – Provide criteria)
  - 3. Based on \_\_\_\_\_ Building Code (Note to Specifier – Provide criteria)
- B. Single-Source Responsibility: Provide doors, windows, and accessories from one manufacturer for each type of door/window.

#### 1.05 SUBMITTALS

- A. Comply with Section 013000 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product literature, brochure, details, and standard color selections.
- C. Shop Drawings: Indicate plans and elevations including rough opening dimensions, configurations, direction of retraction, head, jamb, and sill details, accessories, and connection details.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- E. Operation and Maintenance Data.
- F. Manufacturer's standard sample warranty.

#### 1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of (5) five years of documented experience.
- B. Installer Qualifications: Experienced workmanship certified by the manufacturer.
- C. Products Requiring Electrical Connection: Listed, classified, and acceptable to authority having jurisdiction (AHJ) as suitable for purpose specified.

#### 1.07 DELIVERY, STORAGE, AND HANDLING

- A. Store products in the manufacturer's unopened labeled packaging until ready for installation.
- B. Store materials in a clean, dry, ventilated, weather tight, and secure location. Protect materials from soiling, abuse, loss, and moisture damage.
- C. Glass infill can be pre-glazed by the manufacturer or obtained from local glass manufacturers. Glass to be glazed into system by qualified professional installers.

#### 1.08 PROJECT CONDITIONS

- A. Pre-Installation Conference: Convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum and efficient working conditions and coordination of related and adjacent work.
- B. Opening(s) shall be free and clear of debris, stored materials, equipment, and temporary walls as necessary for installers to perform installation of doors/windows.

#### 1.09 WARRANTY

- A. Manufacturer warrants product within ten (10) years from date of shipment from the factory to the original owner and in its original installation. If a product sold under this warranty proves to be defective in material and workmanship through normal use and service according to manufacturer operation and maintenance instructions, as verified by inspection by persons authorized by Libart, Libart will replace or repair (at Libart option) the defective product.
- B. Manufacturer warrants the finish for five (5) years from date of shipment from the factory against cracking, peeling, and fading.
- C. Manufacturer warrants the electrical motor(s) within five (5) years from the date of shipment from the factory. This warranty does not apply to misuse, scratched, dented, incorrect application or installation or damaged product.
- D. Manufacturer warrants the electrical components within one (1) year from the date of shipment from the factory. This warranty does not apply to misuse, scratched, dented, incorrect application or installation or damaged product.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Basis of Design – PanoraView: This section is based on the products manufactured by Libart North America, LLC, which is located at:

Libart North America, LLC  
600 Defiance Ave.  
Hicksville, OH 43526  
Tel: (800) 431-2986  
[www.forabetterview.com](http://www.forabetterview.com)  
[www.libartusa.com](http://www.libartusa.com)

- B. Substitutions: Not permitted

### 2.02 VERTICAL RETRACTING DOORS/WINDOWS

- A. The PanoraView is a double-glazed, thermally broken, 6063-T6 aluminum system that operates with a threaded shaft and structurally improved with mechanical joints. Motorized doors and windows are controlled with limit switches.
- B. Operation: As indicated on the Drawings and/or Door or Window Schedule.
1. The threaded shaft is stored in operating channel when door/window is in the open position acting as a safety device preventing accidental closure of door/window.
  2. THRU-BEAM PHOTO EYE – If an object breaks the beam of the standard photo eye, the door/window reverses and is held open until it is reset.
  3. OVER TRAVEL SWITCH – Double back-up switch stops the door to ensure the door/window never exceeds its upper/lower limit.
- C. Size: (Note to Specifier – Choose option(s)/Provide criteria)
1. As indicated on the Drawings
  2. Width \_\_\_\_\_ feet \_\_\_\_\_ inches.
  3. Height \_\_\_\_\_ feet \_\_\_\_\_ inches.
  4. Refer to Door or Window Schedule

D. Type:

1. PanoraView Window (GUW) (Note to Specifier – Choose type(s))

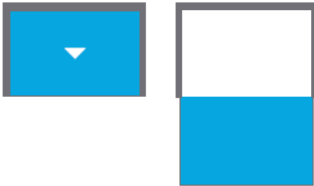
- a. GUW1
- b. GUW2
- c. GUW3
- d. GUW4

2. PanoraView Door (GUD) (Note to Specifier – Choose type(s))

- a. GUD1
- b. GUD2
- c. GUD3
- d. GUD4

**WINDOW SYSTEMS**

W1 CLOSED / OPENED



W2 CLOSED / OPENED



W3 CLOSED / OPENED



W4 CLOSED / OPENED



**DOOR SYSTEMS**

D1 CLOSED / OPENED



D2 CLOSED / OPENED



D3 CLOSED / OPENED



D4 CLOSED / OPENED



### 2.03 GLAZING

- A. System is fully glazed with standard glazing: 1-5/16" (1/2"-1/2"-5/16") insulated glass. The use of other glass or infill materials should be referred to the manufacturer due to additional weight, deflection, door/window design, configuration and construction.

### 2.04 FINISHES

- A. Finish: All surfaces except working machine parts shall receive the following factory-applied finish:
  - 1. Powder Coat Paint - (Note to Specifier – State color)
  - 2. As selected from manufacturer's standard full range of available RAL colors

### 2.05 MOTORIZATION

- A. Motors: (Note to Specifier – Retain one of the two options)
  - 1. Motor: 220 VAC single phase
    - a. Sealed motor system
    - b. 2 X 12V, 12 A Battery
    - c. 50/60 Hz
    - d. 24 VDC Onboard Logic Controllers
    - e. Shaft Operated
    - f. Upper & Lower Safety Sensors
    - g. Upper & Lower Safety Sensors
  - 2. Motor: 380 VAC three phase
    - a. Sealed motor system
    - b. 50/60 Hz
    - c. 24 VDC Onboard Logic Controllers
    - d. Shaft Operated
    - e. Upper & Lower Safety Sensors
    - f. Upper & Lower Limit Switches
- B. Doors/windows shall be electronically operated with control systems as specified in operation documents.
- C. Coordinate electrical service and wiring connection as specified.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Do not begin installation until openings have been properly prepared.
- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- C. Verify electrical power is available and of correct specifications.

### 3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.03 INSTALLATION

- A. Install doors/windows, and operating equipment in accordance with approved shop drawings and the manufacturer's installation instructions.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- C. Set units plumb, level, and true to line, without warp or rack of frame.
- D. Fit and align door/window assembly including all related accessories.
- E. Coordinate installation of electrical service.

### 3.04 CLEANING AND ADJUSTING

- A. Lubricate, test, and adjust door/window assembly to allow smooth operation and in full contact with weather-stripping.
- B. Remove temporary labels, tags, and visible markings.
- C. Clean doors, windows, frames, and glass.

### 3.05 PROTECTION

- A. Do not permit construction traffic through PanoraView door/window openings after adjustment and cleaning.
- B. Protect installed product until completion of project.

C. Conduct any necessary touch-ups to damaged finishes before Substantial Completion.

3.06 MAINTENANCE

A. Post Installation Maintenance:

1. Contractor and installer shall provide owner with complete company name, address, phone number, email address, and assigned contact for emergency repairs and scheduled maintenance for the installed door(s)/window(s).

B. Training/Instruction for Owner on Operation and Maintenance:

1. Installer shall provide manufacturer's Operation and Maintenance Instructions to Owner or Owner's representative for regular maintenance and operation of door(s)/window(s).

END OF SECTION